

Amendments to the Claims:

Please amend claims 1, 20-22 and 24 as shown in the listing of claims that follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method of reducing or eliminating neoplastic cells in an ex vivo mixture of normal, hematopoietic cells and neoplastic cells by ~~contacting~~ incubating said mixture with an effective amount of a vesicular stomatitis virus, wherein the mixture is a suspension.
 2. (canceled).
 3. (Original) A method as in claim 1 wherein said neoplastic cells are leukemia cells.
 4. (Original) A method as in claim 1 wherein said hematopoietic cells are marrow cells.
 - 5 (Original) A method as in claim 1 wherein said hematopoietic cells are peripheral blood cells.
- Claims 6-9 (canceled).
10. (Withdrawn) A method as in claim 7 wherein said non-segmented, negative sense RNA virus is a paramyxovirus.

11. (Withdrawn) A method as in claim 10 wherein said paramyxovirus is Newcastle disease virus.

12. (Withdrawn) A method as in claim 6 wherein said single-strand RNA virus is Sindbis virus.

13. (Withdrawn) A method as in claim 2 wherein said RNA virus is a double-strand RNA virus.

14. (Withdrawn) A method as in claim 13 wherein said double strand RNA virus is a reovirus.

15. (Withdrawn) A method as in claim 14 wherein said reovirus is reovirus type 3.

16. (Withdrawn) A method as in claim 13 wherein said reovirus is clonal.

17. (Previously presented) A method as in claim 1 wherein said virus is replication-competent .

18. (Withdrawn) A method as in claim 2 wherein said RNA virus is a replication-incompetent RNA virus.

19. (Original) A method as in claim 1 wherein said neoplastic cells are lymphoma cells.

20. (Currently amended) A method as in claim 1 further comprising administering a
| chemotherapeutic agent to the mixture before, during or after ~~contacting~~ incubating with
said virus.

21. (Currently amended) A method as in claim 1 further comprising administering an interferon to the mixture before, during or after ~~contacting-incubating~~ with said virus.

22. (Currently amended) A method of treating cancer in a mammal comprising:

- a) removing bone marrow or peripheral blood cells from said mammal as a suspension,
- b) ~~contacting-incubating~~ said suspension of bone marrow or peripheral blood cells ex vivo with an effective amount of a vesicular stomatitis virus,
- c) performing myeloablative treatment on said mammal, and
- d) transplanting into said mammal the purged hematopoietic cells of step b.

23. (Original) A method as in claim 22 wherein said myeloablative treatment is high dose chemotherapy.

24. (Currently amended) A method of treating cancer in a mammal receiving a bone marrow or peripheral blood stem cell transplant comprising ~~contacting-incubating~~ the suspension of harvested transplant cells ex vivo with an effective amount of a vesicular stomatitis virus, and administering the purged cells to said mammal.